



## Biological Technical Engineering Office

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## B'CUZZ ROOT STIMULATOR MATERIAL DATA SHEET

### 1. IDENTITY / DESCRIPTION

- 1.1 Identity:      **Root Stimulator**  
1.2 Manufacturer:      Atami  
1.3 Contact information:      See above

### 2. HAZARDOUS INGREDIENTS IDENTITY INFORMATION

- 2.1 Hazardous components: None, not classified in any hazardous substance class.  
2.2 Chemical character:

Fe(iron) chelate (micro nutrient) up to 1%  
Mn (manganese)chelate(micro nutrient) up to 0.5%  
Zn (zinc)chelate (micro nutrient) up to 0.4%

### 3. PHYSICAL / CHEMICAL CHARACTERISTICS

3.1	Boiling point:	105 degrees C
3.2	Specific gravity:	1.03 g/cm <sup>3</sup>
3.3	Vapor Pressure:	1 Ombr
3.4	Melting Point:	-/- 6 degrees C.
3.5	Vapor Density (Air = 1):	N/A (Air = 1)
3.6	Solubility in water:	Yes, 900 g/l
3.7	Viscosity:	60m Pa-s (Brookfield)
3.8	Form:	Liquid
3.9	Apperance:	Brown
3.10	Odor:	Rose
3.11	pH (at g/L H <sub>2</sub> O):	pH 7-8

### 4. FIRE AND EXPLOSION HAZARD DATA

4.1	Flash point:	None
4.2	Flammable limits:	None
4.3	LEL:	None
4.4.	UEL:	None

### 4. FIRE AND EXPLOSION HAZARD DATA

4.5	Extinguishable Media:	Not required
4.6	Special Fire Fighting Procedures:	None
4.7	Unusual Fire & Explosion Hazards:	None
4.8	Ignition temperature:	None
4.9	Hazardous decomposition	None
4.10	Hazardous reactions:	None

### 5. REACTIVITY DATA

5.1	Stability:	Stable
5.2	Incompatibility:	None
5.3	Hazardous Decomposition	None
5.4	Hazardous reactions	Will not occur

### 6. HEALTH HAZARD DATA

6.1	Route of Entry / Inhalation:	None
6.2	Route of Entry / Skin:	Wash of with richly water
6.3	Route of Entry / Digestion	Potential for mild diarrhea caused by enzymatic action with bacteria in the stomach
6.4	Health Hazards (Acute & Chronic):	Not a harzardous substance
6.5	Carcinogenicity:	N / A
6.6	Signs & Symptoms of Exposure:	None
6.7	Medical Conditions Generall Aggravated by Exposure:	Potential for mild diarrhea if taken internally In concentrate form
6.8	Emergency First Aid Procedures:	Wash eye's out with Water for 15 minutes. If swallowed, drink one quart of water to dilute.

# Root Stimulator cont'd.

- |     |   |                        |
|-----|---|------------------------|
| 7.1 | Technical Protection Measures:                              | No Special Precautions |
| 7.2 | Personal Protection including:<br>Breathing, Eye and Hands: | No special Precautions |
| 7.3 | Fire and explosion protection:                              | No special protection  |
| 7.4 | Recommended storage condition:                              |                        |

Storage temperature should be between 10 degrees C & 40 degrees C. (i) Temperatures over 90 degrees C may result in thermal Decomposition. By-products totally benign, organic matter, water carbon.

Precaution: Dilute with water and wash away. (ii) Change of state may occur at temperatures over 70 degrees C, causing a coagulation of protein.

Precaution: Dilute with water and wash away. Indicators of points (i) and (ii) will be a separation of products into light liquid on top half and more dense liquid on bottom of container.

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| 7.5 | Precautions on Handling:                               | No danger from handling packaged material.   |
| 7.6 | Waste Disposal Method<br>Released or Spoiled Material: | Products is biodegradable. Small spills can be washed away with water.<br>Large spills if uncontaminated, can be Returned to container, or washed away with water. |

## 8. CONTROL MEASURES

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|-----|---|--|
| 8.1 | Respiratory Protection:                             | None required  |
| 8.2 | Ventilation:  | None required  |
| 8.3 | Protective Gloves:                                  | None required  |
| 8.4 | Eye Protection:                                     | None required  |
| 8.5 | Other Protective Clothing or Handling<br>Equipment: | None required  |
| 8.6 | Work / Hygienic Practices:                          | Product is sterile in concentrated form.<br>Wash hands after contact with soap<br>and water prior to eating or drinking. |